

# NORDISK AKUSTIK A/S



## Damping Compound

DC1050 spraying compound

NORDISK AKUSTIK DC1050 is produced to reduce noise from vibrations and structure sound produced either by regular or impulsive effects. Typical application areas are cars, railway coaches, diesel locomotives, ventilation shafts, doors, windows, machine fencing, internal fittings, transport installations, household machines, computers, elevators, etc.

## Nordisk Akustik DC1050 spraying compound

Art.no. 104820

DC1050 is easily applied irregular structures and is a product of synthetic and visco elastic, vibration damping masses, which consists of polivinyl acetate emulsion and mineral fillers. The damping effects of DC1050 depends on the relation between the thickness and the damping surface, the sheet and the environment. Fig. 1. and 2. shows the damping effect of a sheet of steel as used on these two basic principles:

**Fig. 1.**

Comb. Loss factor

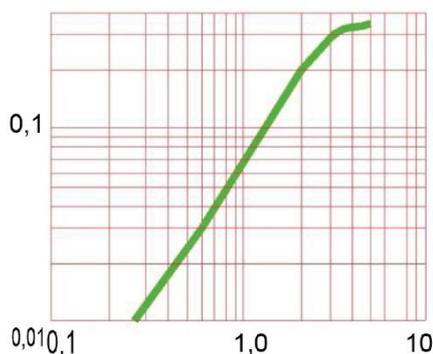
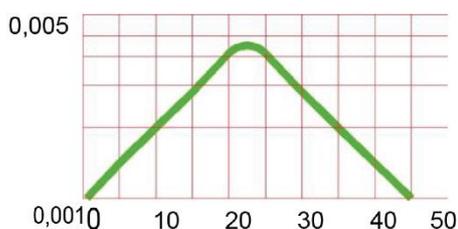


Fig. 1. Thickness relation between damping material and steel. Effect at thickness tested on steel at 100 Hz and 20°C.

**Fig. 2.**

Comb. Loss factor



Temperature °C

Fig. 2. Effect at temperature tested on steel at 100 Hz.

<b>Specific gravity (dry):</b>	1300 kg/m <sup>3</sup>
<b>Solid</b>	65%
<b>Viscosity:</b>	Thick
<b>Thermal conductivity:</b>	0,3 W/m.°C
<b>Colour:</b>	Yellowish
<b>Flammability:</b>	8S476 Part 7 class 1 for 1,6 kg/m <sup>2</sup> on 1,25 mm. steel
<b>Packing:</b>	25 kg. plastic bucket

On order 200 kg. drums.

<b>Durability:</b>	6 months in unopened packing
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### Spraying directions:

Nordisk Akustik DC1050 is stirred very carefully before use. We recommend systems with a pressure distributor, 3/4" bottom detach, spraying pistol with 3/4" admission and 3/8 or 1/2" nozzle, work pressure 4,5 atm. Compressor with min. air use of 1000 litre by the minute. We recommend use of primer. Drying is only achieved at temperatures of more than 10°C. Hot-air fans can be used with advantage. Generally approx. 1,6 kg. wet weight DC 1050 is used per m<sup>2</sup> surface for 1 mm. covering.

### Application of compound:

Max. 3 mm. compound can be used (4,5 kg/m<sup>2</sup> wet weight) on vertical surfaces. Larger thicknesses can be build with more layer on each other but every layer has to be totally dry before applying the next layer. If the compound is to be filled it is necessary to paint a thin layer that holds the head layer of the compound at first. Time of drying are at 2 kg/m<sup>2</sup> 5½ hours and at 5 kg/m<sup>2</sup> 29 hours at normal air drying.

### Surface treatment:

The surface must be rough and degreased. Painted or stainless steel surfaces is made rough with emery cloth. Other unpainted metal surfaces are treated with a single layer of primer.

### Finishing:

Protection against the weather is done by giving two layers of paint with bitumen on DC1050.

All information and instructions for use of products is based on experiments, tests and practical experience. However, they should be treated as general guidelines only. Local conditions and other used materials may influence end results. Nordisk Akustik A/S accept no responsibility for the results achieved when our products are used, as the conditions under which work is carried out is beyond our control.